

Table 1C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Demographic Indicators ⁽²⁾

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Total Records			Source of Data		
Number %			Number %		
Complete Records	50,417	73.9	WIC	68,268	100.0
Prenatal Records	6,070	8.9	Maternal Health	0	0.0
Postpartum Records	11,781	17.3	Other	0	0.0
Total Records Accepted	68,268		Total	68,268	100.0
			<i>Excluded Unknown: 0</i>	<i>0.0</i>	

Race/Ethnic Distribution			Age Distribution			Education Distribution		
Number %			Number %			Number %		
White, Not Hispanic	38,931	57.4	< 15 Years	149	0.2	< High School	17,042	25.5
Black, Not Hispanic	18,661	27.5	15 - 17 Years	3,321	4.9	High School	29,403	43.9
Hispanic	6,837	10.1	18 - 19 Years	7,875	11.6	> High School	20,491	30.6
American Indian/Alaska Native	264	0.4	20 - 29 Years	42,109	61.9	Total	66,936	100.0
Asian/Pacific Islander	1,159	1.7	30 - 39 Years	13,591	20.0			
Multiple Races	1,999	2.9	>= 40 Years	1,025	1.5			
All Other	0	0.0	Total	68,070	100.0			
Total	67,851	100.0						
<i>Excluded Unknown: 417</i>	<i>0.6</i>		<i>Excluded Unknown: 198</i>	<i>0.3</i>		<i>Excluded Unknown: 1,332</i>	<i>2.0</i>	

% Poverty Level			Program Participation ⁽³⁾			Migrant Status		
Number %			Number %			Number %		
0 - 50	24,146	42.9	WIC	56,487	100.0	Yes	690	1.0
51 - 100	15,932	28.3	SNAP	56,383	57.4	No	67,578	99.0
101 - 130	6,245	11.1	Medicaid	56,374	83.2	Total	68,268	100.0
131 - 150	2,940	5.2	TANF	56,372	16.7			
151 - 185	3,814	6.8						
186 - 200	864	1.5	<i>Excluded Unknown:</i>					
> 200	2,144	3.8	WIC:	0	0.0			
Adjunctive Eligibility	228	0.4	SNAP:	104	0.2			
Total	56,313	100.0	Medicaid:	113	0.2			
<i>Excluded Unknown: 174</i>	<i>0.3</i>		TANF:	115	0.2	<i>Excluded Unknown: 0</i>	<i>0.0</i>	

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Prenatal program participation.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 2C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Prepregnancy BMI (3)				
Underweight	62,450	4.4	1,106,370	4.5
Normal Weight	62,450	41.2	1,106,370	42.1
Overweight	62,450	24.9	1,106,370	26.0
Obese	62,450	29.5	1,106,370	27.4
Maternal Weight Gain (4)				
Less Than Ideal	50,780	17.6	835,927	21.5
Ideal	50,780	31.4	835,927	30.6
Greater Than Ideal	50,780	51.0	835,927	48.0
Anemia (Low Hb/Hct) (5)				
1st Trimester	24,619	8.4	419,016	7.6
2nd Trimester	19,819	14.2	333,582	12.0
3rd Trimester	10,073	35.7	164,201	33.9
Postpartum	13,477	28.1	346,981	28.1
Parity (6)				
0	67,213	40.9	965,206	40.3
1	67,213	28.5	965,206	26.8
2	67,213	16.6	965,206	16.7
≥ 3	67,213	14.0	965,206	16.3
Interpregnancy Interval				
< 6 Months	38,390	12.9	554,361	11.7
6 - <18 Months	38,390	27.1	554,361	25.9
≥18 Months	38,390	60.0	554,361	62.4
Gestational Diabetes	61,404	7.0	419,956	5.2
Hypertension During Pregnancy	61,421	10.5	467,675	6.3

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 2C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Medical Care				
1st Trimester	60,703	81.1	429,770	83.1
No Care	60,703	9.2	429,770	4.1
WIC Enrollment				
1st Trimester	67,137	36.7	1,074,863	36.0
2nd Trimester	67,137	30.6	1,074,863	33.9
3rd Trimester	67,137	15.9	1,074,863	16.9
Postpartum (3)	67,137	16.8	1,074,863	13.2
Prepregnancy Multivitamin Consumption (4)	51,249	18.8	380,154	19.2
Multivitamin Consumption During Pregnancy (5)	55,764	83.4	418,448	85.0
Smoking				
3 Months Prior to Pregnancy	64,049	32.8	814,631	23.0
During Pregnancy	55,879	19.1	710,227	14.0
Last 3 Months of Pregnancy	61,427	16.9	715,034	12.1
Postpartum	61,455	18.0	722,233	14.1
Smoking Changes (6)				
Quit Smoking by First Prenatal Visit	19,149	44.7	166,084	43.5
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	16,751	39.5	137,883	38.1
Smoking in Household				
During Pregnancy	55,787	16.8	660,570	16.3
Postpartum	61,403	5.5	562,126	15.6
Drinking				
3 Months Prior to Pregnancy	63,780	21.7	930,233	8.8
Last 3 Months of Pregnancy	61,488	0.7	577,187	0.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Women who initially enrolled in WIC during the postpartum period.

(4) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

(6) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 2C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Health Indicators

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Summary of Health Indicators (2)				
	Michigan Prevalence		National Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (3)				
Very Low	58,040	1.3	880,933	1.1
Low	58,040	7.3	880,933	6.9
Normal	58,040	84.3	880,933	85.3
High	58,040	7.1	880,933	6.7
Preterm (4)	59,523	11.7	948,286	10.7
Full term Low Birth Weight (5)	50,780	3.6	749,107	3.4
Multiple Births	60,952	1.6	978,390	1.4
Breastfeeding				
Ever Breastfed	58,402	60.5	871,811	68.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation and <2500 g.



Table 3C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

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Comparison of Racial and Ethnic Distribution by Contributor to Nation

Comparison of Racial and Ethnic Distribution ⁽²⁾								
	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Michigan	68,268	57.0	27.3	10.0	0.4	1.7	2.9	0.6
Nation (Prior Year)	1,162,961	41.6	22.7	29.2	1.1	3.4	1.3	0.7

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 4C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by Contributor to Nation

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Comparison of Age Distribution ⁽²⁾								
	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Michigan	68,268	0.2	4.9	11.5	61.7	19.9	1.5	0.3
Nation (Prior Year)	1,162,961	0.3	5.3	11.5	59.4	21.7	1.7	0.2

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 5C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by Contributor to Nation

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Comparison of Maternal Health Indicators ⁽²⁾														
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1	61,404	7.0	61,421	10.5
Nation (Prior Year)	1,106,370	4.5	53.4	835,927	21.5	48.0	164,201	33.9	346,981	28.1	419,956	5.2	467,675	6.3

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 6C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

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Comparison of Maternal Behavioral Indicators by Contributor to Nation

Comparison of Maternal Behavioral Indicators ⁽²⁾									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregpregnancy ⁽³⁾		During Pregnancy ⁽⁴⁾	
	Number	%	%	Number	%	Number	%	Number	%
Michigan	60,703	81.1	9.2	67,137	36.7	51,249	18.8	55,764	83.4
Nation (Prior Year)	429,770	83.1	4.1	1,074,863	36.0	380,154	19.2	418,448	85.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 7C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by Contributor to Nation

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Comparison of Smoking Indicators ⁽²⁾										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽³⁾	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	%	Number	%		Number	%	Number	%	
Michigan	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
Nation (Prior Year)	814,631	23.0	715,034	12.1	137,883	38.1	660,570	16.3	562,126	15.6

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 8C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by Contributor to Nation

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Comparison of Infant Health Indicators ⁽²⁾								
	Birthweight			Preterm (5)	Full Term LBW (6)	Ever Breastfed		
	Low (3)		High (4)					
	Number	%	%	Number	%	Number	%	
Michigan	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402 60.5
Nation (Prior Year)	880,933	8.0	6.7	948,286	10.7	749,107	3.4	871,811 68.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 9C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education												(2)		
	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity														
White, Not Hispanic	35,938	4.7	52.0	29,299	16.4	52.3	5,356	25.9	8,039	20.7	35,217	6.9	35,224	10.0
Black, Not Hispanic	17,305	3.9	59.1	14,259	18.4	51.5	3,424	52.4	3,713	43.3	16,912	6.0	16,906	13.2
Hispanic	6,083	2.6	60.1	4,770	22.1	44.0	777	33.7	989	30.0	6,243	9.6	6,252	7.1
American Indian/Alaska Native	242	3.7	54.1	200	15.5	49.0	42	*	56	*	223	9.9	223	11.2
Asian/Pacific Islander	1,015	10.0	30.2	766	25.7	31.7	170	25.9	259	24.3	1,025	11.6	1,032	3.9
Multiple Races	1,856	5.1	51.9	1,479	16.2	53.3	304	34.2	418	33.0	1,779	6.9	1,779	10.3
All Other/Unknown	11	*	*	7	*	*	0	*	3	*	5	*	5	*
Total	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1	61,404	7.0	61,421	10.5
Age														
< 15 Years	135	12.6	21.5	109	20.2	45.0	23	*	21	*	137	0.7	137	11.7
15 - 17 Years	3,055	8.3	33.3	2,493	20.1	49.7	462	41.1	560	37.5	2,989	1.8	2,992	10.0
18 - 19 Years	7,309	7.2	41.5	6,013	17.1	53.9	1,170	39.6	1,409	32.8	7,058	2.7	7,053	10.3
20 - 29 Years	38,599	4.3	54.5	31,606	16.9	51.3	6,384	35.5	8,180	27.4	38,037	6.0	38,038	9.4
30 - 39 Years	12,291	2.1	66.1	9,789	18.9	49.2	1,873	32.8	3,036	26.4	12,143	13.4	12,157	13.6
>= 40 Years	893	1.3	69.7	639	24.9	43.3	140	30.0	271	22.1	861	18.6	864	18.4
Unknown	168	1.2	57.7	131	13.7	55.7	21	*	0	*	179	7.3	180	6.7
Total	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1	61,404	7.0	61,421	10.5
Education														
< High School	15,425	5.8	50.1	12,286	21.7	47.3	2,497	42.9	3,005	34.4	15,348	6.2	15,351	9.2
High School	27,165	4.4	54.6	22,200	17.0	51.5	4,383	36.3	5,652	27.7	26,714	7.1	26,718	10.6
> High School	19,116	3.2	57.5	15,741	15.3	53.3	3,078	29.1	4,688	24.3	18,550	7.7	18,558	11.4
Unknown	744	3.2	53.4	553	17.4	49.2	115	40.0	132	34.8	792	8.6	794	8.6
Total	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1	61,404	7.0	61,421	10.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 10C
2011 Pregnancy Nutrition Surveillance (1)
Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education (2)									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	34,824	82.8	10.8	38,319	41.2	30,978	21.3	32,201	86.0
Black, Not Hispanic	16,787	78.9	4.7	18,374	25.0	12,885	12.6	14,844	82.9
Hispanic	6,093	77.9	12.8	6,705	44.8	4,840	19.1	5,889	71.2
American Indian/Alaska Native	224	82.1	8.5	257	46.3	203	19.7	226	86.7
Asian/Pacific Islander	1,015	83.8	7.4	1,138	34.0	808	21.5	931	75.4
Multiple Races	1,756	79.0	11.1	1,965	39.0	1,530	19.1	1,673	82.7
All Other/Unknown	4	*	*	379	2.1	5	*	0	*
Total	60,703	81.1	9.2	67,137	36.7	51,249	18.8	55,764	83.4
Age									
< 15 Years	135	49.6	16.3	147	32.7	115	10.4	131	79.4
15 - 17 Years	2,943	70.2	11.0	3,275	36.5	2,399	6.7	2,920	81.9
18 - 19 Years	6,957	77.4	10.2	7,742	37.7	5,688	9.4	6,857	83.1
20 - 29 Years	37,621	82.1	9.2	41,431	36.1	31,471	18.4	34,118	83.6
30 - 39 Years	12,018	83.6	8.2	13,356	37.9	10,607	27.2	10,782	83.5
>= 40 Years	852	79.6	9.9	993	36.4	810	29.5	794	80.0
Unknown	177	68.9	23.7	193	50.3	159	11.9	162	78.4
Total	60,703	81.1	9.2	67,137	36.7	51,249	18.8	55,764	83.4
Education									
< High School	15,127	75.5	10.1	16,697	36.7	11,729	11.6	14,160	76.7
High School	26,412	81.0	9.5	28,940	37.3	22,188	17.0	24,359	83.8
> High School	18,404	86.0	7.9	20,220	36.4	16,611	26.3	16,553	88.6
Unknown	760	77.5	15.0	1,280	28.6	721	17.8	692	75.4
Total	60,703	81.1	9.2	67,137	36.7	51,249	18.8	55,764	83.4

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

(3) Women who reported taking a multivitamin four times a week or more in the month before pregnancy; proxy for folic acid consumption.

(4) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 11C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Smoking Indicators by Race/Ethnicity, Age, or Education

Smoking Indicators by Race/Ethnicity, Age, or Education ⁽²⁾										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	%	Number	%		Number	%	Number	%	
Race/Ethnicity										
White, Not Hispanic	37,127	41.1	35,209	22.6	12,222	35.6	32,174	17.8	35,185	5.2
Black, Not Hispanic	17,261	21.9	16,912	9.1	2,936	52.3	14,857	18.4	16,914	7.1
Hispanic	6,421	15.0	6,269	5.6	823	55.4	5,923	7.7	6,261	3.0
American Indian/Alaska Native	247	53.0	221	37.6	106	25.5	226	18.1	223	7.2
Asian/Pacific Islander	1,110	4.7	1,037	1.8	41	*	935	5.2	1,034	2.3
Multiple Races	1,878	42.1	1,774	24.3	623	35.0	1,672	23.3	1,781	7.1
All Other/Unknown	5	*	5	*	0	*	0	*	5	*
Total	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
Age										
< 15 Years	144	16.7	135	8.1	17	*	130	34.6	136	11.0
15 - 17 Years	3,192	25.9	2,998	10.4	689	50.2	2,923	33.9	2,992	13.3
18 - 19 Years	7,452	35.6	7,054	15.7	2,240	45.5	6,854	28.3	7,055	8.9
20 - 29 Years	39,157	34.9	38,046	18.1	10,919	39.0	34,123	15.2	38,033	4.9
30 - 39 Years	12,929	27.5	12,147	15.8	2,705	34.2	10,799	10.3	12,141	3.7
>= 40 Years	987	23.4	867	14.8	154	26.6	793	11.1	866	4.7
Unknown	188	21.3	180	7.8	27	*	165	9.1	180	1.1
Total	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
Education										
< High School	15,741	38.5	15,367	23.0	4,796	30.7	14,206	23.3	15,355	8.1
High School	27,719	35.3	26,711	18.2	7,900	40.2	24,342	17.4	26,709	5.7
> High School	19,742	24.9	18,556	10.2	3,917	48.7	16,544	10.6	18,543	3.3
Unknown	847	25.0	793	13.2	138	40.6	695	12.4	796	4.0
Total	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 12C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education ⁽²⁾									
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	33,198	7.0	8.6	34,052	10.1	29,612	2.8	33,410	65.9
Black, Not Hispanic	16,193	12.7	4.1	16,543	15.1	13,609	5.5	16,250	47.5
Hispanic	5,821	6.4	7.6	6,001	11.8	5,084	2.7	5,881	62.9
American Indian/Alaska Native	202	6.4	14.4	206	10.2	179	3.4	205	65.4
Asian/Pacific Islander	953	9.3	3.6	999	12.3	825	5.2	971	71.9
Multiple Races	1,669	8.5	6.5	1,717	10.8	1,467	3.4	1,681	64.4
All Other/Unknown	4	*	*	5	*	4	*	4	*
Total	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5
Age									
< 15 Years	128	6.3	2.3	135	17.8	105	1.0	130	40.0
15 - 17 Years	2,847	7.7	4.6	2,931	13.6	2,431	3.6	2,861	52.3
18 - 19 Years	6,738	8.3	5.4	6,874	11.8	5,864	4.2	6,767	56.8
20 - 29 Years	36,110	6.8	7.1	36,977	10.8	31,915	3.4	36,317	61.2
30 - 39 Years	11,306	8.1	8.8	11,657	13.4	9,718	3.8	11,402	62.8
>= 40 Years	751	12.6	6.8	777	17.6	613	6.9	759	62.3
Unknown	160	4.4	10.6	172	16.3	134	3.0	166	68.1
Total	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5
Education									
< High School	14,355	8.1	5.5	14,826	13.3	12,266	4.3	14,475	47.5
High School	25,280	7.4	7.3	25,886	11.4	22,188	3.6	25,419	58.6
> High School	17,674	6.7	7.9	18,037	10.7	15,684	2.9	17,760	73.6
Unknown	731	6.2	9.8	774	11.8	642	3.7	748	67.0
Total	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 13C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators ⁽²⁾										
	Weight Gain (3)			Birth Outcomes						
	< Ideal		> Ideal	Birthweight			Preterm (6)		Full Term LBW (7)	
				Low (4)	High (5)					
		Number	%	%	Number	%	%	Number	%	Number
Prepregnancy BMI										
Underweight	2,275	31.9	25.2	2,341	13.6	1.8	2,393	14.2	1,983	6.5
Normal Weight	21,346	21.6	41.0	22,162	8.9	5.0	22,735	11.4	19,479	3.8
Overweight	12,648	10.2	62.8	13,329	7.9	7.8	13,662	11.4	11,700	3.2
Obese	14,511	15.9	59.5	15,853	7.9	10.0	16,152	11.6	13,869	3.2
Weight Gain										
< Ideal	–	–	–	8,140	15.8	3.0	8,367	16.9	6,697	6.7
Ideal	–	–	–	15,313	8.2	4.5	15,648	11.2	13,487	3.5
> Ideal	–	–	–	25,112	6.1	9.9	25,541	9.6	22,485	2.6
Smoking During Pregnancy										
Smokers	7,738	20.9	49.1	8,624	10.8	4.8	8,951	12.2	7,542	5.3
Non-Smokers	33,526	16.8	51.6	38,423	7.4	7.8	39,392	11.2	33,955	3.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 14C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Racial and Ethnic Distribution

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Summary of Trends in Racial and Ethnic Distribution ⁽²⁾								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2011	68,268	57.0	27.3	10.0	0.4	1.7	2.9	0.6
2010	68,508	56.7	27.5	10.4	0.3	1.7	2.6	0.7
2009	69,465	57.1	27.2	10.5	0.3	1.7	2.5	0.7
2008	68,879	56.8	27.7	10.7	0.3	1.6	2.7	0.2
2007	65,261	56.8	28.2	11.2	0.3	1.5	2.0	0.0
2006	61,946	56.3	28.1	11.5	0.4	1.7	1.9	0.0
2005	65,212	55.4	27.3	11.3	0.5	1.7	0.0	3.8
2004	64,160	59.2	28.6	10.0	0.5	1.6	0.0	0.1
2003	61,040	59.8	28.1	10.1	0.5	1.5	0.0	0.0
2002	59,234	59.4	28.8	10.0	0.5	1.3	0.0	0.0
2001	61,122	59.0	29.3	10.0	0.5	1.1	0.0	0.0
2000	62,088	59.1	29.8	9.5	0.5	1.1	0.0	0.0
1999	57,354	60.5	29.7	8.1	0.5	1.1	0.0	0.0
1998	61,824	61.6	29.9	6.9	0.5	1.1	0.0	0.0
1997	58,796	61.7	30.5	6.2	0.5	1.2	0.0	0.0
1996	59,794	62.5	29.5	6.3	0.5	1.2	0.0	0.0
1995	42,765	63.2	29.3	5.9	0.5	1.1	0.0	0.0
1994	60,846	59.5	28.9	5.0	0.5	0.9	0.0	5.3
1993	0	*	*	*	*	*	*	*
1992	36,204	49.7	22.6	3.3	0.4	0.6	0.0	23.3
1991	5,920	62.1	32.1	4.3	0.7	0.7	0.0	0.1

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 14C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Racial and Ethnic Distribution

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Summary of Trends in Racial and Ethnic Distribution ⁽²⁾								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
1990	527	33.8	63.8	1.9	0.2	0.2	0.0	0.2
1989	0	*	*	*	*	*	*	*
1988	0	*	*	*	*	*	*	*
1987	0	*	*	*	*	*	*	*
1986	0	*	*	*	*	*	*	*
1985	0	*	*	*	*	*	*	*
1984	0	*	*	*	*	*	*	*
1983	495	11.1	82.4	1.8	0.0	0.6	0.0	4.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 15C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Age Distribution

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Summary of Trends in Age Distribution ⁽²⁾								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2011	68,268	0.2	4.9	11.5	61.7	19.9	1.5	0.3
2010	68,508	0.2	5.6	12.6	60.5	19.2	1.4	0.4
2009	69,465	0.3	6.1	13.0	60.4	18.6	1.4	0.3
2008	68,879	0.3	6.6	13.0	60.4	18.3	1.2	0.1
2007	65,261	0.4	7.0	13.5	60.4	17.5	1.2	0.0
2006	61,946	0.4	7.1	13.2	60.8	17.4	1.2	0.0
2005	65,212	0.4	6.8	12.9	60.7	17.9	1.3	0.0
2004	64,160	0.5	7.0	13.3	60.4	17.4	1.2	0.0
2003	61,040	0.4	7.2	13.4	60.3	17.5	1.2	0.0
2002	59,234	0.5	7.3	13.6	60.1	17.3	1.2	0.0
2001	61,122	0.5	7.8	14.4	59.5	16.7	1.1	0.0
2000	62,088	0.6	8.2	14.8	59.7	15.8	1.0	0.0
1999	57,354	0.7	8.6	15.1	59.0	15.6	1.0	0.0
1998	61,824	0.6	9.0	15.4	58.6	15.4	1.0	0.0
1997	58,796	0.7	9.3	15.2	58.2	15.7	0.9	0.0
1996	59,794	0.8	9.8	15.1	57.7	15.7	0.8	0.0
1995	42,765	0.9	10.3	15.2	57.4	15.4	0.8	0.0
1994	60,846	0.8	9.6	14.6	55.0	14.2	0.6	5.3
1993	0	*	*	*	*	*	*	*
1992	36,204	0.5	7.0	12.4	46.1	10.6	0.4	23.1

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 15C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Age Distribution

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Summary of Trends in Age Distribution ⁽²⁾								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
1991	5,920	0.5	8.1	14.8	61.8	14.2	0.6	0.1
1990	527	1.1	10.4	17.5	56.5	14.4	0.0	0.0
1989	0	*	*	*	*	*	*	*
1988	0	*	*	*	*	*	*	*
1987	0	*	*	*	*	*	*	*
1986	0	*	*	*	*	*	*	*
1985	0	*	*	*	*	*	*	*
1984	0	*	*	*	*	*	*	*
1983	495	1.4	11.3	18.8	57.6	9.5	0.4	1.0

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 16C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Maternal Health Indicators

Summary of Trends in Maternal Health Indicators ⁽²⁾										
Year	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
2011	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1
2010	62,765	4.3	54.7	47,954	18.1	50.9	9,759	35.9	14,210	28.0
2009	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6
2008	61,530	4.3	53.7	50,428	27.5	47.1	7,153	33.4	15,327	32.4
2007	60,363	4.5	52.9	49,545	26.9	47.9	10,307	33.0	13,389	35.9
2006	57,082	4.6	52.7	47,352	26.1	49.1	9,715	30.6	13,699	34.4
2005	59,933	4.7	52.1	50,558	25.8	48.6	10,283	31.2	13,786	35.0
2004	58,873	4.8	51.7	49,556	26.0	48.9	10,643	30.4	14,448	35.1
2003	56,040	5.2	51.0	46,960	26.9	48.6	10,111	30.1	13,318	35.4
2002	54,233	5.4	50.3	44,928	28.9	46.3	9,663	30.9	13,117	36.3
2001	55,825	5.6	49.4	44,935	30.2	45.3	10,543	30.0	13,370	36.4
2000	55,640	6.1	48.2	45,631	30.8	44.2	10,903	30.2	14,310	34.6
1999	51,564	5.9	47.9	42,436	32.3	43.2	9,849	29.5	13,464	33.5
1998	55,426	6.1	46.8	45,765	34.4	41.1	10,709	28.3	14,955	34.1
1997	53,027	6.4	46.3	44,716	34.1	41.0	10,577	29.2	14,109	33.1

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 16C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Maternal Health Indicators

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Summary of Trends in Maternal Health Indicators ⁽²⁾										
Year	Pregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
1996	53,731	7.0	44.0	45,694	34.7	39.6	10,523	28.3	15,415	32.5
1995	38,579	6.9	43.1	31,410	34.5	39.7	739	25.8	10,433	31.7
1994	53,190	7.0	42.2	44,361	35.2	38.9	9,951	26.4	14,862	27.3
1993	0	*	*	0	*	*	0	*	0	*
1992	17,626	7.6	40.3	15,282	50.9	29.4	6,781	19.6	8,106	21.4
1991	4,964	6.9	40.4	3,212	46.9	30.1	317	21.5	794	21.5
1990	515	9.1	36.1	2	*	*	6	*	0	*
1989	0	*	*	0	*	*	0	*	0	*
1988	0	*	*	0	*	*	0	*	0	*
1987	0	*	*	0	*	*	0	*	0	*
1986	0	*	*	0	*	*	0	*	0	*
1985	0	*	*	0	*	*	0	*	0	*
1984	0	*	*	0	*	*	0	*	0	*
1983	419	7.9	25.8	0	*	*	151	24.5	13	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 17C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Maternal Behavioral Indicators

Summary of Trends in Maternal Behavioral Indicators ⁽²⁾					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
2011	60,703	81.1	9.2	67,137	36.7
2010	58,887	80.9	8.9	67,717	37.5
2009	58,275	86.8	1.0	68,253	32.5
2008	57,594	79.4	5.8	66,585	32.0
2007	57,142	75.2	10.2	62,874	32.3
2006	54,154	74.6	10.4	59,555	33.7
2005	57,333	74.8	10.3	62,630	32.6
2004	56,142	74.1	10.7	61,767	31.3
2003	53,408	74.3	10.4	58,592	31.7
2002	51,532	73.8	10.5	56,964	32.3
2001	52,785	72.6	10.8	58,587	30.8
2000	52,989	71.9	11.2	59,332	31.0
1999	48,354	72.3	10.9	55,040	31.3
1998	52,821	72.5	11.1	59,429	31.3
1997	53,601	68.6	15.1	56,551	28.2
1996	55,003	68.4	16.0	57,285	28.4
1995	38,526	68.3	17.3	4,392	37.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 17C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Maternal Behavioral Indicators

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Summary of Trends in Maternal Behavioral Indicators ⁽²⁾					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
1994	52,540	68.9	15.9	56,451	27.3
1993	0	*	*	0	*
1992	25,272	62.9	20.4	17,934	21.6
1991	3,475	66.7	17.4	5,150	2.2
1990	2	*	*	89	*
1989	0	*	*	0	*
1988	0	*	*	0	*
1987	0	*	*	0	*
1986	0	*	*	0	*
1985	0	*	*	0	*
1984	0	*	*	0	*
1983	0	*	*	453	4.2

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 18C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Smoking Indicators

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Summary of Trends in Smoking Indicators (2)										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
2010	64,879	32.9	59,595	17.3	16,245	37.9	56,327	17.9	59,594	6.1
2009	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
2008	54,010	36.3	55,045	22.8	8,423	32.1	1,883	13.6	6,120	6.2
2007	57,504	36.5	48,873	19.6	13,240	34.0	0	*	0	*
2006	55,239	37.3	46,997	20.9	13,327	33.0	0	*	0	*
2005	57,338	38.1	50,206	21.6	14,035	31.1	0	*	0	*
2004	55,289	39.5	48,543	23.0	14,091	30.2	0	*	0	*
2003	52,553	39.6	45,315	23.1	13,107	30.5	0	*	0	*
2002	50,060	41.5	42,894	24.4	12,886	29.5	0	*	0	*
2001	49,929	43.3	41,825	25.6	12,853	29.3	0	*	0	*
2000	48,546	44.4	42,095	26.9	12,808	27.4	0	*	0	*
1999	42,774	45.6	37,486	27.1	11,817	27.9	0	*	0	*
1998	44,293	46.0	39,259	29.4	12,584	25.2	0	*	0	*
1997	43,106	44.4	38,286	29.2	12,134	25.2	0	*	0	*
1996	44,508	44.1	39,708	29.5	12,537	23.7	0	*	0	*
1995	33,102	44.8	27,876	29.9	9,290	24.4	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 18C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Smoking Indicators

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Summary of Trends in Smoking Indicators (2)										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	%	Number	%		Number	%	Number	%	
1994	45,652	44.8	29,284	29.7	8,990	24.3	0	*	0	*
1993	0	*	0	*	0	*	0	*	0	*
1992	18,823	46.7	2,264	34.1	0	*	0	*	0	*
1991	4,155	43.5	379	33.2	0	*	0	*	0	*
1990	159	62.9	0	*	0	*	518	0.0	0	*
1989	0	*	0	*	0	*	0	*	0	*
1988	0	*	0	*	0	*	0	*	0	*
1987	0	*	0	*	0	*	0	*	0	*
1986	0	*	0	*	0	*	0	*	0	*
1985	0	*	0	*	0	*	0	*	0	*
1984	0	*	0	*	0	*	0	*	0	*
1983	0	*	0	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 19C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Infant Health Indicators

Summary of Trends in Infant Health Indicators ⁽²⁾									
Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
2011	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5
2010	56,022	8.5	7.2	57,751	12.0	48,876	3.6	56,255	59.8
2009	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
2008	53,086	8.2	7.5	56,971	4.7	50,198	6.5	53,917	54.7
2007	50,990	7.5	7.6	53,478	0.1	50,925	7.5	50,651	54.0
2006	48,784	7.7	7.6	51,359	0.1	48,730	7.7	49,713	52.0
2005	51,616	7.8	8.0	54,788	0.1	51,414	7.8	51,914	52.6
2004	50,805	7.7	8.3	53,814	0.1	50,617	7.7	50,837	50.5
2003	48,280	7.3	8.7	50,986	0.2	48,077	7.3	48,115	49.8
2002	46,356	7.2	8.6	48,916	0.2	46,177	7.2	45,739	49.3
2001	46,760	7.3	9.0	49,230	0.1	46,567	7.3	45,726	49.5
2000	48,538	7.1	9.0	50,944	0.2	48,399	7.1	46,885	46.9
1999	44,840	6.9	9.1	47,125	0.2	44,674	6.9	41,632	47.6
1998	48,000	7.3	9.3	50,889	0.2	47,842	7.3	44,301	46.5

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 19C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Infant Health Indicators

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Summary of Trends in Infant Health Indicators (2)								
Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed
	Low (3)		High (4)					
	Number	%	%	Number	%	Number	%	Number %
1997	46,683	8.0	9.3	49,298	0.1	46,526	8.0	43,232 45.4
1996	48,557	7.9	9.0	50,513	0.1	48,419	7.9	44,021 44.2
1995	34,379	8.0	9.5	0	*	0	*	30,011 44.9
1994	50,502	7.9	9.5	47,519	2.6	45,914	6.7	45,043 41.7
1993	0	*	*	0	*	0	*	0 *
1992	30,684	8.1	9.8	22,424	9.0	20,157	3.7	23,468 42.0
1991	3,175	6.0	11.5	3,152	9.0	2,805	3.4	2,734 54.0
1990	0	*	*	0	*	0	*	0 *
1989	0	*	*	0	*	0	*	0 *
1988	0	*	*	0	*	0	*	0 *
1987	0	*	*	0	*	0	*	0 *
1986	0	*	*	0	*	0	*	0 *
1985	0	*	*	0	*	0	*	0 *
1984	0	*	*	0	*	0	*	0 *

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 19C
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Trends in Infant Health Indicators

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Summary of Trends in Infant Health Indicators ⁽²⁾									
Year	Birthweight			Preterm (5)	Full Term LBW (6)		Ever Breastfed		
	Low (3)		High (4)						
	Number	%	%	Number	%	Number	%	Number	%
1983	495	7.9	4.6	462	15.4	391	3.1	19	*

(1) Reporting period is January 1 through December 31.

(2) Excludes records with unknown data or errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 20C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
White, Not Hispanic	2011	35,938	4.7	52.0	29,299	16.4	52.3	5,356	25.9	8,039	20.7
	2010	35,941	4.6	52.7	27,263	16.6	52.5	5,140	27.5	7,691	20.1
	2009	37,356	4.7	51.8	28,830	20.8	50.9	5,273	27.9	8,396	21.0
	2008	35,161	4.7	51.7	28,478	25.1	49.2	4,067	25.3	9,164	26.0
	2007	34,069	5.0	50.3	27,582	24.5	50.2	5,838	25.4	8,206	30.9
	2006	31,924	5.4	50.0	26,274	22.6	52.1	5,427	24.1	8,123	29.2
	2005	33,286	5.4	49.6	27,835	23.2	51.0	5,714	25.3	8,264	30.9
	2004	34,699	5.6	48.9	29,069	22.9	51.5	6,191	25.1	8,957	31.9
	2003	33,309	5.9	48.3	27,675	24.1	51.2	5,827	24.8	8,162	31.5
	2002	32,136	6.1	47.6	26,374	26.5	48.7	5,413	25.3	8,122	31.9
Black, Not Hispanic	2011	17,305	3.9	59.1	14,259	18.4	51.5	3,424	52.4	3,713	43.3
	2010	17,534	3.7	58.9	13,807	19.1	51.2	3,371	49.7	4,556	41.8
	2009	17,863	3.6	59.1	14,090	20.7	50.2	3,304	50.7	3,566	42.7
	2008	17,404	3.8	58.0	14,503	29.4	47.1	2,269	47.5	4,204	45.2
	2007	17,323	3.9	58.1	14,433	29.0	47.3	3,261	46.3	3,281	47.5
	2006	16,345	3.7	58.1	13,689	29.8	47.4	3,083	42.6	3,399	45.3
	2005	16,822	3.7	58.0	14,163	27.7	48.3	3,233	42.2	3,115	45.9
	2004	17,105	3.7	57.8	14,439	29.5	47.8	3,461	40.7	3,600	44.8
	2003	16,033	4.3	57.1	13,563	29.7	47.7	3,262	40.5	3,295	45.4
	2002	15,908	4.0	56.3	13,319	31.1	45.7	3,286	41.6	3,148	48.5

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 20C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan

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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Hispanic	2011	6,083	2.6	60.1	4,770	22.1	44.0	777	33.7	989	30.0
	2010	6,346	2.9	59.1	4,689	22.8	43.3	808	35.3	1,309	27.3
	2009	6,617	2.4	59.4	5,141	28.5	40.8	796	37.1	1,153	28.1
	2008	6,415	2.5	57.1	5,361	33.6	38.5	534	33.0	1,290	34.5
	2007	6,705	2.6	55.7	5,675	32.8	40.0	815	33.5	1,361	40.3
	2006	6,500	2.6	56.2	5,474	31.5	40.9	833	29.3	1,664	37.3
	2005	6,734	2.7	54.4	5,795	31.3	40.6	947	29.1	1,425	36.4
	2004	5,796	2.6	54.6	5,001	32.5	39.6	776	27.1	1,573	32.4
	2003	5,529	2.9	53.6	4,753	34.2	38.8	819	26.6	1,575	34.7
	2002	5,217	3.5	51.6	4,434	36.1	36.1	781	25.9	1,602	34.9
American Indian/Alaska Native	2011	242	3.7	54.1	200	15.5	49.0	42	*	56	*
	2010	212	5.2	61.3	168	14.9	51.8	29	*	41	*
	2009	205	3.4	58.0	170	21.8	54.7	23	*	38	*
	2008	182	6.0	61.5	158	26.6	41.8	14	*	49	*
	2007	198	5.1	53.5	173	22.0	55.5	33	*	35	*
	2006	233	2.1	60.5	191	23.0	53.4	29	*	57	*
	2005	276	5.8	54.0	227	28.6	50.2	42	*	67	*
	2004	318	4.7	53.1	266	26.3	50.4	45	*	64	*
	2003	298	4.4	51.0	258	22.5	55.0	39	*	63	*
	2002	286	5.2	57.0	234	19.7	51.7	39	*	64	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Asian/Pacific Islander	2011	1,015	10.0	30.2	766	25.7	31.7	170	25.9	259	24.3
	2010	1,057	8.9	29.3	756	29.5	31.1	183	26.2	278	23.0
	2009	1,055	9.9	27.7	781	32.5	30.6	160	32.5	225	25.3
	2008	989	9.7	28.2	823	40.9	27.0	124	31.5	288	30.9
	2007	906	11.3	29.1	755	36.3	27.7	183	32.8	219	29.2
	2006	977	10.0	31.4	804	39.6	28.5	174	27.0	205	31.7
	2005	998	9.8	25.2	841	42.6	27.5	185	30.3	223	30.9
	2004	955	9.5	27.1	781	39.4	28.6	170	28.8	254	31.9
	2003	871	11.9	24.5	711	38.3	29.5	164	27.4	223	31.4
	2002	686	13.7	24.8	567	39.3	27.0	144	25.7	181	32.6
Multiple Races	2011	1,856	5.1	51.9	1,479	16.2	53.3	304	34.2	418	33.0
	2010	1,664	4.7	53.7	1,261	16.8	53.1	228	32.5	327	27.5
	2009	1,669	3.8	50.6	1,298	21.6	52.6	274	44.2	353	31.4
	2008	1,378	3.7	52.0	1,104	23.5	51.7	145	40.0	331	37.8
	2007	1,162	3.4	52.7	927	24.3	50.9	177	35.6	287	30.7
	2006	1,098	4.8	50.3	917	24.0	52.1	169	31.4	251	34.3
	2005	0	*	*	0	*	*	0	*	0	*
	2004	0	*	*	0	*	*	0	*	0	*
	2003	0	*	*	0	*	*	0	*	0	*
	2002	0	*	*	0	*	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 20C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
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Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
All Other/Unknown	2011	11	*	*	7	*	*	0	*	3	*
	2010	11	*	*	10	*	*	0	*	8	*
	2009	6	*	*	2	*	*	2	*	3	*
	2008	1	*	*	1	*	*	0	*	1	*
	2007	0	*	*	0	*	*	0	*	0	*
	2006	5	*	*	3	*	*	0	*	0	*
	2005	1,817	4.6	51.1	1,697	24.9	49.2	162	34.6	692	31.9
	2004	0	*	*	0	*	*	0	*	0	*
	2003	0	*	*	0	*	*	0	*	0	*
	2002	0	*	*	0	*	*	0	*	0	*
Total All Race/Ethnic Groups	2011	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1
	2010	62,765	4.3	54.7	47,954	18.1	50.9	9,759	35.9	14,210	28.0
	2009	64,771	4.2	54.2	50,312	21.8	49.4	9,832	36.8	13,734	27.6
	2008	61,530	4.3	53.7	50,428	27.5	47.1	7,153	33.4	15,327	32.4
	2007	60,363	4.5	52.9	49,545	26.9	47.9	10,307	33.0	13,389	35.9
	2006	57,082	4.6	52.7	47,352	26.1	49.1	9,715	30.6	13,699	34.4
	2005	59,933	4.7	52.1	50,558	25.8	48.6	10,283	31.2	13,786	35.0
	2004	58,873	4.8	51.7	49,556	26.0	48.9	10,643	30.4	14,448	35.1
	2003	56,040	5.2	51.0	46,960	26.9	48.6	10,111	30.1	13,318	35.4
	2002	54,233	5.4	50.3	44,928	28.9	46.3	9,663	30.9	13,117	36.3

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(5) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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2011 Pregnancy Nutrition Surveillance ⁽¹⁾
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Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity ⁽²⁾						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
White, Not Hispanic	2011	34,824	82.8	10.8	38,319	41.2
	2010	33,321	82.9	10.4	38,438	42.2
	2009	33,316	90.6	1.0	38,987	36.8
	2008	32,853	83.0	6.1	37,751	36.0
	2007	32,455	79.3	10.3	35,572	36.5
	2006	30,594	78.9	10.5	33,401	37.6
	2005	31,804	78.7	10.8	34,855	37.7
	2004	33,432	77.7	11.2	36,484	35.6
	2003	32,039	77.8	11.0	34,870	36.1
	2002	30,663	77.5	11.4	33,778	37.6
Black, Not Hispanic	2011	16,787	78.9	4.7	18,374	25.0
	2010	16,520	78.2	4.5	18,610	26.0
	2009	15,976	79.9	0.8	18,594	21.6
	2008	16,426	74.2	3.9	18,531	21.3
	2007	16,371	70.6	6.8	17,858	21.1
	2006	15,468	69.3	7.3	16,842	22.9
	2005	15,773	70.1	7.4	17,354	22.4
	2004	16,247	69.2	7.7	17,766	20.9
	2003	15,293	69.1	7.5	16,584	20.9
	2002	15,232	68.3	8.0	16,516	20.6

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity ⁽²⁾						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Hispanic	2011	6,093	77.9	12.8	6,705	44.8
	2010	6,305	77.4	11.9	7,047	44.2
	2009	6,335	85.2	1.2	7,153	39.8
	2008	5,947	75.1	9.4	7,118	40.0
	2007	6,149	66.2	19.1	7,071	39.4
	2006	5,936	65.9	18.4	6,889	40.4
	2005	6,252	66.7	16.7	7,159	37.1
	2004	5,247	65.9	16.8	6,202	35.5
	2003	4,962	67.2	15.9	5,931	36.4
	2002	4,701	67.6	13.6	5,662	35.0
American Indian/Alaska Native	2011	224	82.1	8.5	257	46.3
	2010	205	79.5	10.7	222	44.1
	2009	192	87.5	2.6	216	38.9
	2008	169	81.7	5.3	203	37.9
	2007	193	74.1	14.0	201	40.3
	2006	203	74.4	12.8	244	49.6
	2005	267	77.2	9.7	295	39.3
	2004	289	75.1	10.7	327	42.8
	2003	283	76.3	11.3	304	43.8
	2002	271	81.2	7.7	299	44.1

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity ⁽²⁾						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Asian/Pacific Islander	2011	1,015	83.8	7.4	1,138	34.0
	2010	999	83.5	7.2	1,187	34.5
	2009	948	86.0	0.8	1,131	27.7
	2008	921	77.4	4.0	1,060	25.2
	2007	879	74.7	7.3	938	25.3
	2006	918	77.6	7.2	1,005	29.6
	2005	969	72.4	9.3	1,052	27.5
	2004	885	74.5	9.0	988	27.1
	2003	831	73.6	7.7	903	23.5
	2002	665	73.7	6.6	709	21.4
Multiple Races	2011	1,756	79.0	11.1	1,965	39.0
	2010	1,534	80.8	9.5	1,763	41.0
	2009	1,502	84.0	1.2	1,734	34.3
	2008	1,278	76.4	8.1	1,842	30.8
	2007	1,094	73.5	11.8	1,234	38.0
	2006	1,030	73.2	11.4	1,169	38.8
	2005	0	*	*	0	*
	2004	0	*	*	0	*
	2003	0	*	*	0	*
	2002	0	*	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity ⁽²⁾						
Race/Ethnicity and Year		Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
All Other/Unknown	2011	4	*	*	379	2.1
	2010	3	*	*	450	0.9
	2009	6	*	*	438	1.6
	2008	0	*	*	80	*
	2007	1	*	*	0	*
	2006	5	*	*	5	*
	2005	2,268	74.6	5.8	1,915	16.8
	2004	42	*	*	0	*
	2003	0	*	*	0	*
	2002	0	*	*	0	*
Total All Race/Ethnic Groups	2011	60,703	81.1	9.2	67,137	36.7
	2010	58,887	80.9	8.9	67,717	37.5
	2009	58,275	86.8	1.0	68,253	32.5
	2008	57,594	79.4	5.8	66,585	32.0
	2007	57,142	75.2	10.2	62,874	32.3
	2006	54,154	74.6	10.4	59,555	33.7
	2005	57,333	74.8	10.3	62,630	32.6
	2004	56,142	74.1	10.7	61,767	31.3
	2003	53,408	74.3	10.4	58,592	31.7
	2002	51,532	73.8	10.5	56,964	32.3

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 22C
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Michigan
Summary of Trends in Smoking Indicators by Race/Ethnicity

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Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic	2011	37,127	41.1	35,209	22.6	12,222	35.6	32,174	17.8	35,185	5.2
	2010	37,326	41.9	33,735	23.7	11,904	34.3	32,453	19.1	33,744	5.8
	2009	31,886	46.4	33,837	25.8	11,044	32.3	18,069	18.8	30,857	6.2
	2008	31,473	47.6	31,381	28.8	6,504	29.8	1,173	15.1	3,910	6.6
	2007	33,265	48.0	27,751	27.3	10,233	31.3	0	*	0	*
	2006	31,512	49.3	26,721	28.8	10,160	30.6	0	*	0	*
	2005	32,562	50.1	28,017	29.8	10,869	29.0	0	*	0	*
	2004	33,760	50.0	29,506	30.3	11,188	28.1	0	*	0	*
	2003	32,546	50.2	27,802	30.4	10,470	28.4	0	*	0	*
2002	31,021	51.9	26,176	31.5	10,239	28.0	0	*	0	*	
Black, Not Hispanic	2011	17,261	21.9	16,912	9.1	2,936	52.3	14,857	18.4	16,914	7.1
	2010	17,775	21.7	16,604	9.0	2,825	49.5	15,070	19.5	16,599	8.1
	2009	14,403	21.9	16,157	11.0	2,383	43.5	9,055	18.2	15,177	8.5
	2008	14,355	22.1	15,175	15.2	1,220	41.1	376	12.8	1,156	6.4
	2007	15,922	22.0	13,724	10.3	2,048	44.0	0	*	0	*
	2006	15,347	23.1	13,123	11.6	2,118	39.5	0	*	0	*
	2005	15,120	24.5	13,428	12.4	2,176	35.6	0	*	0	*
	2004	15,048	26.2	13,133	13.6	2,247	37.7	0	*	0	*
	2003	14,148	25.4	12,220	13.6	2,046	37.0	0	*	0	*
	2002	13,714	27.5	12,018	15.1	2,066	34.1	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 22C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Smoking Indicators by Race/Ethnicity

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Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic	2011	6,421	15.0	6,269	5.6	823	55.4	5,923	7.7	6,261	3.0
	2010	6,731	15.0	6,462	5.5	818	52.1	6,151	8.1	6,461	2.9
	2009	6,109	14.5	6,554	6.4	717	54.3	3,780	7.3	6,183	2.8
	2008	5,955	12.4	6,046	9.7	353	45.0	239	7.1	765	3.3
	2007	6,147	12.8	5,551	4.4	507	50.5	0	*	0	*
	2006	6,144	13.8	5,275	5.4	571	52.5	0	*	0	*
	2005	6,315	13.6	5,647	5.4	552	50.0	0	*	0	*
	2004	5,247	13.1	4,863	6.1	470	44.0	0	*	0	*
	2003	4,773	13.0	4,344	4.7	403	52.1	0	*	0	*
2002	4,403	14.7	3,926	6.6	411	44.5	0	*	0	*	
American Indian/Alaska Native	2011	247	53.0	221	37.6	106	25.5	226	18.1	223	7.2
	2010	209	51.2	207	32.9	91	*	187	18.2	207	6.8
	2009	175	52.6	191	34.6	55	*	67	*	140	5.7
	2008	170	59.4	169	30.8	39	*	4	*	8	*
	2007	198	58.1	175	32.0	86	*	0	*	0	*
	2006	227	55.5	187	33.2	83	*	0	*	0	*
	2005	272	60.7	237	32.9	118	33.1	0	*	0	*
	2004	317	61.2	258	39.9	139	25.2	0	*	0	*
	2003	293	59.7	255	41.2	130	21.5	0	*	0	*
2002	297	69.0	240	40.4	133	33.8	0	*	0	*	

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Michigan
Summary of Trends in Smoking Indicators by Race/Ethnicity

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Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2011	1,110	4.7	1,037	1.8	41	*	935	5.2	1,034	2.3
	2010	1,152	5.1	1,022	1.6	42	*	947	5.2	1,022	2.5
	2009	856	7.6	971	4.0	49	*	570	5.3	907	3.0
	2008	799	5.9	872	6.9	20	*	27	*	120	3.3
	2007	823	7.7	736	3.1	37	*	0	*	0	*
	2006	904	7.0	754	3.2	39	*	0	*	0	*
	2005	907	8.5	831	2.4	45	*	0	*	0	*
	2004	880	10.3	744	3.8	47	*	0	*	0	*
	2003	793	11.0	694	4.8	58	*	0	*	0	*
2002	625	10.1	534	5.4	37	*	0	*	0	*	
Multiple Races	2011	1,878	42.1	1,774	24.3	623	35.0	1,672	23.3	1,781	7.1
	2010	1,683	42.0	1,562	23.5	565	34.9	1,519	24.4	1,558	7.9
	2009	1,438	43.9	1,529	24.6	501	32.5	852	18.8	1,392	8.9
	2008	1,258	45.0	1,402	34.7	287	32.8	64	*	161	8.7
	2007	1,148	46.6	935	26.3	329	31.6	0	*	0	*
	2006	1,100	45.3	935	26.3	355	29.6	0	*	0	*
	2005	0	*	0	*	0	*	0	*	0	*
	2004	0	*	0	*	0	*	0	*	0	*
	2003	0	*	0	*	0	*	0	*	0	*
	2002	0	*	0	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 22C
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Summary of Trends in Smoking Indicators by Race/Ethnicity

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Summary of Trends in Smoking Indicators by Race/Ethnicity ⁽²⁾											
Race/Ethnicity and Year		Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)	Smoking in Household				
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown	2011	5	*	5	*	0	*	0	*	5	*
	2010	3	*	3	*	0	*	0	*	3	*
	2009	1	*	7	*	0	*	1	*	7	*
	2008	0	*	0	*	0	*	0	*	0	*
	2007	1	*	1	*	0	*	0	*	0	*
	2006	5	*	2	*	1	*	0	*	0	*
	2005	2,162	35.1	2,046	20.9	275	33.1	0	*	0	*
	2004	37	*	39	*	0	*	0	*	0	*
	2003	0	*	0	*	0	*	0	*	0	*
	2002	0	*	0	*	0	*	0	*	0	*
Total All Race/Ethnic Groups	2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
	2010	64,879	32.9	59,595	17.3	16,245	37.9	56,327	17.9	59,594	6.1
	2009	54,868	35.8	59,246	19.3	14,749	35.2	32,394	17.0	54,663	6.5
	2008	54,010	36.3	55,045	22.8	8,423	32.1	1,883	13.6	6,120	6.2
	2007	57,504	36.5	48,873	19.6	13,240	34.0	0	*	0	*
	2006	55,239	37.3	46,997	20.9	13,327	33.0	0	*	0	*
	2005	57,338	38.1	50,206	21.6	14,035	31.1	0	*	0	*
	2004	55,289	39.5	48,543	23.0	14,091	30.2	0	*	0	*
	2003	52,553	39.6	45,315	23.1	13,107	30.5	0	*	0	*
	2002	50,060	41.5	42,894	24.4	12,886	29.5	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) Among women who smoked 3 months prior to pregnancy.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic	2011	33,198	7.0	8.6	34,052	10.1	29,612	2.8	33,410	65.9
	2010	31,592	6.8	8.7	32,630	10.4	28,127	2.8	31,758	64.7
	2009	31,295	7.0	8.5	32,698	10.3	27,844	2.8	31,700	62.5
	2008	30,105	6.9	9.0	32,132	4.5	28,556	5.3	30,412	59.9
	2007	28,757	6.3	9.1	30,008	0.1	28,718	6.3	28,549	58.8
	2006	27,459	6.4	9.1	28,762	0.1	27,431	6.4	27,802	56.2
	2005	28,526	6.4	9.3	30,092	0.1	28,437	6.4	28,697	56.2
	2004	30,091	6.4	9.7	31,747	0.1	29,985	6.4	30,133	54.8
	2003	28,803	6.1	10.1	30,250	0.1	28,692	6.1	28,624	54.0
	2002	27,380	6.0	10.0	28,822	0.2	27,265	6.0	26,944	54.0
Black, Not Hispanic	2011	16,193	12.7	4.1	16,543	15.1	13,609	5.5	16,250	47.5
	2010	15,834	12.7	4.0	16,237	15.3	13,250	5.8	15,819	46.4
	2009	15,165	12.4	4.0	15,776	14.8	12,785	5.5	15,254	42.8
	2008	14,974	11.7	4.2	15,957	5.2	14,087	9.7	15,194	39.7
	2007	14,651	10.8	4.4	15,343	0.1	14,631	10.7	14,429	38.6
	2006	13,934	11.3	4.5	14,595	0.2	13,913	11.3	14,165	37.4
	2005	14,123	11.2	5.0	14,960	0.1	14,061	11.2	13,952	37.6
	2004	14,627	11.5	5.2	15,423	0.2	14,562	11.5	14,357	35.9
	2003	13,693	10.5	5.6	14,494	0.2	13,632	10.5	13,521	35.2
	2002	13,568	10.6	5.4	14,275	0.2	13,521	10.6	13,218	34.7

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Michigan
Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Hispanic	2011	5,821	6.4	7.6	6,001	11.8	5,084	2.7	5,881	62.9
	2010	6,010	6.3	7.5	6,196	12.2	5,219	2.3	6,079	65.8
	2009	6,045	5.8	7.8	6,339	10.4	5,349	2.5	6,167	63.8
	2008	5,783	5.7	8.4	6,285	4.8	5,450	4.5	6,016	63.9
	2007	5,680	5.1	8.1	6,130	0.0	5,678	5.1	5,778	65.9
	2006	5,460	5.2	8.8	5,955	0.2	5,457	5.2	5,776	65.5
	2005	5,734	5.5	9.2	6,258	0.1	5,708	5.5	5,948	66.5
	2004	5,034	4.8	9.0	5,482	0.1	5,019	4.8	5,232	63.8
	2003	4,811	5.0	9.6	5,205	0.2	4,786	5.0	4,983	64.8
	2002	4,599	4.8	9.1	4,953	0.2	4,585	4.8	4,749	62.3
American Indian/Alaska Native	2011	202	6.4	14.4	206	10.2	179	3.4	205	65.4
	2010	186	3.8	12.9	193	9.8	165	1.2	186	65.6
	2009	176	7.4	10.2	187	9.1	158	4.4	178	59.6
	2008	162	4.9	11.7	176	2.3	157	3.2	167	53.9
	2007	179	6.7	16.2	181	0.0	179	6.7	173	63.6
	2006	193	4.1	8.8	199	0.0	193	4.1	192	51.6
	2005	240	7.9	14.6	249	0.0	238	8.0	238	59.7
	2004	269	7.8	14.1	280	0.0	269	7.8	273	49.5
	2003	262	3.8	12.6	269	0.0	261	3.8	256	50.4
	2002	236	4.2	16.1	250	0.0	236	4.2	238	55.0

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Michigan
Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity ⁽²⁾										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2011	953	9.3	3.6	999	12.3	825	5.2	971	71.9
	2010	958	8.5	5.3	995	10.3	859	4.0	970	72.9
	2009	889	8.7	4.0	944	10.0	799	5.0	905	68.5
	2008	837	5.9	4.1	922	3.9	801	4.9	876	65.5
	2007	783	6.9	4.5	821	0.4	780	6.9	787	67.5
	2006	792	7.7	4.5	857	0.1	791	7.7	826	64.0
	2005	854	6.8	4.3	925	0.3	845	6.9	892	61.7
	2004	749	7.9	7.2	832	0.1	747	7.9	795	60.0
	2003	711	7.7	4.8	768	0.4	706	7.8	731	58.4
	2002	573	6.3	6.1	616	0.2	570	6.3	590	56.3
Multiple Races	2011	1,669	8.5	6.5	1,717	10.8	1,467	3.4	1,681	64.4
	2010	1,440	8.7	7.6	1,497	11.8	1,254	4.1	1,441	63.7
	2009	1,406	8.4	7.6	1,476	10.8	1,242	3.9	1,418	58.0
	2008	1,178	8.6	7.0	1,423	4.4	1,116	6.6	1,193	57.5
	2007	940	6.1	8.7	995	0.4	939	6.1	935	59.9
	2006	943	7.0	8.9	988	0.5	942	7.0	949	56.4
	2005	0	*	*	0	*	0	*	0	*
	2004	0	*	*	0	*	0	*	0	*
	2003	0	*	*	0	*	0	*	0	*
	2002	0	*	*	0	*	0	*	0	*

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)						
		Number	%	%	Number	%	Number	%	Number	%
All Other/Unknown	2011	4	*	*	5	*	4	*	4	*
	2010	2	*	*	3	*	2	*	2	*
	2009	145	10.3	6.9	354	7.1	122	1.6	164	57.9
	2008	47	*	*	76	*	31	*	59	*
	2007	0	*	*	0	*	0	*	0	*
	2006	3	*	*	3	*	3	*	3	*
	2005	2,139	10.5	7.6	2,304	0.1	2,125	10.5	2,187	58.2
	2004	35	*	*	50	*	35	*	47	*
	2003	0	*	*	0	*	0	*	0	*
	2002	0	*	*	0	*	0	*	0	*
Total All Race/Ethnic Groups	2011	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5
	2010	56,022	8.5	7.2	57,751	12.0	48,876	3.6	56,255	59.8
	2009	55,121	8.4	7.1	57,774	11.5	48,299	3.5	55,786	57.2
	2008	53,086	8.2	7.5	56,971	4.7	50,198	6.5	53,917	54.7
	2007	50,990	7.5	7.6	53,478	0.1	50,925	7.5	50,651	54.0
	2006	48,784	7.7	7.6	51,359	0.1	48,730	7.7	49,713	52.0
	2005	51,616	7.8	8.0	54,788	0.1	51,414	7.8	51,914	52.6
	2004	50,805	7.7	8.3	53,814	0.1	50,617	7.7	50,837	50.5
	2003	48,280	7.3	8.7	50,986	0.2	48,077	7.3	48,115	49.8
	2002	46,356	7.2	8.6	48,916	0.2	46,177	7.2	45,739	49.3

(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

* Percentages are not calculated if <100 records are available for analysis after exclusions.

